APPENDIX A

USER'S MANUAL



eValid Version 3.1

Client-Side Browser-Based Web Site Quality Checking, Testing, Validation, Tuning, Loading, and 24x7 Monitoring. Plus Training, Consulting, and Seminars.



eValid -- The Internet Quality Authority

Client-Side Browser-Based WebSite Quality Checking, Testing Validation, Tuning Loading, 24x7 Monitoring Training Consulting, Seminars

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Frequently Asked Questions (FAQs)

eValid is an object oriented capture replay system that aims to assist in quality testing of WebSites. This Frequently Asked Questions (FAQ) addresses basic questions about eValid and how and when it should be applied. Here are the general discussion areas:

General Questions
Versions, Cost, Licensing, Size, Availability
Performance Measurement
Object Oriented WebSite Testing
Validation Features
Testing Wizards
Limitations and Restrictions
Pricing & Order Form

Questions about eValid can be addressed to info@soft.com.

General Questions [Top of Page]

What is eValid? eValid is an object-oriented capture replay system for WebSite testing and analysis that is built into a standard web browser. eValid runs on Windows NT/2000.

Why do I need eValid? If you're content to have a slow, buggy WebSite, then you don't need eValid. Or, if you're involved in E-commerce and are not concerned about the basic functional quality of your WebSite, then you don't need eValid. But, if you want to have confidence that others viewing your WebSite get the information you want them to get, and/or you want to have assurance of the quality of your E-commerce operations from your WebSite, then you will need to test your WebSite very carefully. eValid makes that process very easy. Please read on.

What is unique about a Test Enabled Web Browser? SR's unique patent-pending Test Enabled Web Browser was created because it is the only way to provide Pure Object Mode operation for testing WebSites. Other capture/replay techniques -- including our own CAPBAK/X for Xwindows and CAPBAK/MSW for Windows 98/NT -- cannot capture WebSites in Object Mode because they only see the operating system's objects. Direct access to the WebSite is therefore masked behind the browser layer. However, testing from the browser itself provides the pure object mode interaction required for efficient and valid testing of WebSites. Nonetheless, these capture/replay products can operate with eValid. A test enabled web browser will focus directly on the abstract objects within your WebSite. The end results are simpler scripts, more reliable playbacks, and easy modification of scripts. With eValid, in -depth test operations are much easier to create than with other capture/replay recording tecniques.

What kind of recording can eValid make? You can record anything and everything you do to analyze a WebSite with eValid. The recordings made are expressed as simple commands -- one command for each action, and one file of commands (called a script) for each recording session. You can edit these commands if you want to delete actions or change parameters.

How serious are the errors that eValid can catch? Do I have to worry about them? WebSite defects can be very serious indeed. Consider a FORM that you are using to handle a financial transaction; if there is a non-working button or an inoperative field, you could be losing a lot of revenue. We tend to think these kinds of defects are serious, and eValid offers a tremendous advantage by making detection of these serious problems virtually 100% automatic.

Versions, Cost, Licensing, Size, Availability [Top of Page]

What is the current version of eValid? The current release of eValid is Ver. 3.0. Please see the

Release Notes.

What platforms are supported by eValid? eValid Ver. 3.0 is currently supported on Windows NT/2000. eValid may be supported on a wider ranger platforms in the future. Please watch our WebSite for eValid product announcements.

Does eValid have to run off the Web or can it run locally? eValid can run locally, e.g. on your Intranet or even on a local copy of your WebSite, or it can run over the Internet.

Can eValid handle any size WebSite? Besides disk space needed for the scripts and log files, there is no size limitation on any part of eValid test activity.

How much execution space does eValid take? eValid's execution footprint is ~570 KBytes. During execution the actual memory usage is ~8.6 MBytes (IE 5.n takes ~8.7 MBytes) on Windows 2000, and ~7.9 MBytes (IE 5.n takes ~9.2 MBytes) on Windows NT 4.0. Actual eValid memory usage may vary depending on machine load and other factors.

Can eValid handle a site with frames? Yes. eValid has no problem handling WebSites with frames.

Will eValid handle JavaScript, VB Script, Java Applets and ActiveX Controls? Yes, JavaScript, VB Script and Java Applets, and ActiveX controls are fully supported. There is special support for recording Java Applets.

Can eValid handle cookies? Yes. In fact, one of eValid's features is "maintaining state" with cookies and session ID's.

Can eValid handle testing sites with proxy servers? Yes. Because eValid tests WebSites entirely from the user's perspective (i.e. via the client), proxy servers present no special barrier to correct eValid operation.

What about handling DHTML and HTML 4.0? Yes. In fact, the ability to correctly parse HTML 4.0 is one of the strong points of eValid.

Can eValid handle 2-byte character set sites? Yes, eValid is capable of handling 2-byte character set sites.

What kind of technical support is available for eValid? SR's standard telephone, Email and Web-based technical support is available. SR also offers consulting as well as standard and customized training courses.

How does eValid integrate with other TestWorks products? Can I use it with SMARTS? eValid can be used with SMARTS (for Windows or UNIX) or with CAPBAK/MSW or CAPBAK/X. Like all TestWorks products, the eValid test engine operates smoothly with other TestWorks products.

How do I obtain a copy of eValid? You can download a limited function DEMO copy of eValid at any time and evaluate it for 7 - 14 days at no cost. Additionally you can request an EVAL copy of eValid and will receive an EVAL license by Email. You can begin this process on the eValid Download Page.

How much does it cost? Pricing of eValid is very competitive. For more information, please visit the Pricing & Order Form. Contact sales@soft.com for complete details or to ask about multiple-product discounts.

Performance Measurement [Top of Page]

Can eValid be used to measure performance? Yes. eValid scripts can be edited to report the start time, the end time, and the elapsed time of each playback or any parts of a playback. Time resolution is measured in 1 msec (0.001 sec) intervals. Timing data is reported in an ASCII Log File that can be used for direct analysis of the raw timing data. Scripts that you have recorded and/or edited can be run multiple times serially in the foreground or, with multiple copies of eValid launched from the batch-mode command-line interface, in the background.

How does eValid compare with products that are based on use of the HTTP

protocol? Because eValid is a true browser, when it downloads a page it downloads **all parts of the page** in addition to the base URL -- everything that's needed to completely render the page. This means that timings you make with eValid always reflect the total client-side time it takes to download a page, all of its referenced components, and to completely render the page. Other systems that use HTTP protocol require you to list every page element separately to obtain this kind of detail, and even then do not include the page rendering time.

What about synchronization? Can eValid wait until a page download is complete?

Yes. eValid has automatic output synchronization built in to make test suite executions extremely reliable. The normal mode of replay waits until each page is fully downloaded before the playback continues. This feature assures synchronization during playback, and also assures that the timings you get are accurate and realistic.

Can I run multiple copies of eValid on one machine? Yes. You can launch multiple copies of eValid on one machine and start each one playing a different script. Also, if you are running eValid with SMARTS [which we recommend that you do] you can launch SMARTS multiple times. The only limit is the amount of RAM you have. Our experiments on a small PC have had up to 100 copies of eValid running in parallel; sometimes more.

How do I retrieve the timing data? Timing information, calculated to the nearest 1 msec, is shown directly on the screen in the Timing Log, and also is written to the underlying timer output file. Performance timing data is only generated if you have edited the script to include it. Recordings that you make to generate scripts do not have timer data included. You can edit the script to reset the timer whenever you want, and you can edit the script to output partial times whenever you want them to appear in the playback session.

Can I see data graphically? Yes. There are several built-in charts that show the results of the current test or of a series of tests.

What about the cache? Doesn't it get in the way of reliable timing data? eValid is implemented so that the caching functions can be turned off entirely, or so that you can start each playback with an empty cache (to simulate the way the browser avoids reloading when it can). To assure accuracty in the data, LoadTest executions always run with no cache.

Object Oriented WebSite Testing [Top of Page]

How does eValid know about "objects" on my WebSite? Because eValid is a true fully-featured Web browser it knows "internally" how each page of your WebSite is organized and structured. This deep internal knowledge is what is used to provide eValid with it is unique Object Mode capability. This same deep knowledge gives eValid the ability to easily and quickly generate complex test sequences for pages that include FORMs and many links.

What does the script language look like? The script language is a very simple command language format. You can edit scripts easily or use a command to create scripts by hand. Most people record scripts and then hand-modify them to "fine tune" the script so it has the desired properties.

Why don't your regular products, like CAPBAK/MSW and CAPBAK/X work on my WebSite? How is eValid different? Actually, those products work pretty well with browsers, but they don't have the pure web-centric object-mode and browser-based content validation and timing capabilities that eValid has. CAPBAK/X or CAPBAK/MSW are very effective tools if you are doing testing that combines activities both inside and outside the web browser. eValid is needed for object-oriented testing inside the browser; you use the other capture/playback engine(s) outside the browser.

Why do you use a separate Web Browser? Why don't you just use IE or Netscape/Navigator and a regular capture/playback System? That would be OK except it is quite difficult to get true object-oriented operation from an OS-based capture/playback system. Even CAPBAK/MSW and CAPBAK/X have difficulty "seeing" objects in a web browser's display area. By building eValid as an adjunct to a browser we eliminate 99% of the complexity of the capture/playback function and gain a number of advantages:

- Real object oriented recordings that refer to the "objects" in your web pages regardless of how they are rendered on your screen.
- The ability to do very-precise timing analyses.
- The ability to do content validation, a critical feature for E-commerce validation and verification functions.

A pure web browser typically has editors and Email and NewsGroup support and bookmarks, etc.; all of these are very useful tools but the don't let you focus on the job of analyzing a WebSite. By using a Test Enabled Web Browser, eValid's proprietary technology can let you focus your testing effort on the WebSite under test. Besides,

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testing a browser is really somebody else's job, isn't it?

Will I see what I recorded during playback? Yes. Because eValid is 100% object oriented you will only see the *effect* of what you recorded when you play back a session. This is because we record only the results of what you do, not the causes. For example, if you are on a FORM and you click a two position radio button back and forth 100 times and then click SUBMIT, eValid records only the last button you clicked — it doesn't care how you arrived at the result, just what the result is. If you are using the TrueTime mode, then eValid will wait the appropriate length of time during playback, assuring realistic playback loading.

Validation Features [Top of Page]

What will happen to my script if my WebSite changes? How re-usable are my test scripts? There are many types of errors that eValid can tell you about, and many unimportant changes that eValid ignores. Because eValid is a true *object oriented* system, changes to a web page that don't affect the structure and layout of a page usually PASS. But there are many different ways to use eValid. eValid is easily configurable to meet your all of your WebSite test and validation requirements.

What Does the Validate Selected Text Feature Do? The powerful Validate Selected Text feature lets you spot-check any page to make sure a required element of text on it is in exactly the place it is supposed to be. An eValid playback using this feature will PASS only if the specified text is in the same relative position on the page as it was when you made the recording. Only the user-selected text is checked during the playback process; changes to other, non-critical (and non-selected) parts of the page will not make the test FAIL. Note that there is a limit to how many characters there can be in each check, but there is no limit to the number of checks that you make of the same page.

What kind of documentation is supplied with eValid? All of the documentation for eValid is delivered as HTML material that is included in the product or is available from our WebSite. This FAQ section is part of the HTML documentation. Also, the most recent version of eValid will automatically use the most recent version of the corresponding user documentation from our WebSite.

What happens if my HTML coding is "not up to standard?" Will eValid still work? Yes, eValid will work just fine. eValid follows the generally accepted page rendering rules supported by Microsoft and Internet Explorer.

How quickly can I use eValid to find errors? We're confident that you will likely find things wrong with your WebSite that you *really want to fix* in the first hour of operation!

Testing Wizards [Top of Page]

What Does the Link Test Wizard Do? For the WebSite page that you are looking at, the Link Test Wizard creates a complete test script for that page that visits every linked area and records the name of each link and the text that underlies it. When you play this back on the current page, the script the wizard has generated will visit every link, wait for it to show up, and then go BACK to the current page. Errors of various types -- too many different kinds to list here -- are reported in the message area.

What Does the Form Test Wizard Do? For a page that contains an FORM that you are looking at, the Form Test Wizard creates a complete test script for that page that visits every input area, clicks on every button, tries every option, and types a pre-determined text into every text region. It then SUBMIT's the FORM for processing by the WebSite. When you play this back on the current page, the script the wizard has generated will type in the same information as when the script was created. If your form has changed the differences between the original and the changed form will be noted in the messages area.

What Does the Validate All Text Wizard Do? This very powerful wizard creates a set of validation checks for the current page. If you play back this script at a later time, any differences between the content recorded by the wizard and the current contents of the page will be an error. Note that these are differences in text content only. The layout and rendering of the page don't make any difference here. It is important to understand that this feature is much more powerful that simply differencing the two HTML pages. With eValid you have the chance to validate the content of a page independent of the layout.

Do I Have to Use the Built-In Test Wizards? No, you don't have to use the wizards. If you manually *record a test* on a page or set of pages that includes any combination of links and/or FORM's entries your test will play back exactly as you recorded it. You can save this test and re-use it later on as you like. The wizards produce tests based on a single web page, but a manual test is not limited in any way to one web page or even to a group of web pages -- not even to a single WebSite. Remember, each wizard always produces a test based on exactly one WebSite page that is *known* to play back reliably.





Are there any limits or restrictions on eValid? There are some limitations in the current versions of the product. Please see the Product Release Notes for complete details on the current version and any limitations that apply to it.



eValid - The Internet Quality Authority

Client-Side Browser - Based WebSite Quality Checking, Testing, Validation, Tuning, Loading, 24x7 Monitoring Training, Consulting, Seminars

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eValid -- Ver. 3.0 Feature Additions and Changes (Ver. 3.0 -- 14Sep01 Build) **Download FREE Evaluation Copy** eValid Home

eValid Ver. 3.0 includes a number of changes and additions compared with the features available in eValid Ver. 2.2. See the Ver. 2.2 Release Notes for information about those versions. The current builds of eValid represent the arrival of the product at the status of a Comprehensive WebSite Test Environment. (See the accompanying Press Release.)

Enhanced/Simplified GUI

We have made improvements across the board in the eValid GUI. There are new, simpler pathways to most functions, and graphical access buttons for all the main functions.

eValid Metrics PopUp

There's a new FREE feature of eValid that all web surfers and testers will appreciate. The eValid Metrics PopUp automatically measures a set of metrics for the page it has just processed.

See the Metrics PopUp documentation for complete details.

eV.SiteMap Performs Whole-WebSite Detailed Analysis

This feature gives eValid the ability to map a complete site -- entirely from the user's (browser) perspective -- and totally under user control.

See the eV.SiteMap documentation for complete details and examples of how this powerful eValid subsystem operates.

Special support is available for sites that require a login sequence before mapping can begin. This is done with a new &SiteAnalysis command that can be appended to any eValid playback script.

eV.Generate System

This feature gives eValid the capability to generate scripts based on the use of a script template and a table of values. Special eVgenerate commands convert a *evt file into a *evs file. See the eV.Generate documentation for complete details and examples of how this powerful eValid subsystem operates.

There are special evgenerate option commands that access the main functions of the eValid test data generation facility:

- Generates a $\star.evs$ script file from the supplied $\star.evt$ template file using eVgenRand *.evt *.tbl *.evs [count]. data from the specific *evt table file, using uniform random distributions of the possible selections, and then plays it back. If present, the count parameter specifies the number of times eVgenerate will execute this process.
- eVgenSequentialReset *.evs. Resets the sequence counter for the named *.evs file to the beginning of the sequence.
- eVgenSequential *.evt *.tbl *.evs [count]. Generates the next sequential instance of a *.evs script file using the named \star_{evt} template file using the specified \star_{tbl} table file, and plays it back. If present, the $_{\text{count}}$ parameter specifies the number of times eVgenerate will execute this process.

eV.Manage System

This new capability provides for management of large sets of eValid scripts that are organized as a test suite. The eV. Manage design target for test suites it can handle is ~1000 organized into 10-100 groups.

Under eV.Manage control the user can:

- Add test scrips into the <u>test tree</u> or delete tests when no longer needed.
- Select tests or groups of tests from the test tree to be executed by eValid.
- Analyze results of individual tests or groups of tests with the Test Rport or with the Regression Report.

See the eV.Manage feature summary for complete details and examples of how this powerful eValid subsystem operates.





We have interfaced TCAT/Java with eValid to make it possible to generate test coverage data for Java Applets as they execute in the eValid browser. See the complete eVcoverage documentation for details.

Download DEMO or EVAL versions of TCAT/Java here

Preferences Profiles Now Available

To assist users in managing the complex settings now available in eValid we have added the ability to define, save and restore named <u>User Profiles</u>. The profile support feature is available for both Record/Play preferences and Site Analysis preferences menus. Up to 16 profile names can be saved for each of the two major groups of eValid options. Pre-defined profiles can also be selected from command-line invocations of eValid.

Record/Play of Absolute Mouse Drags

eValid can now record and play absolute mouse drags. Recording starts when you left-click the mouse and continues until you release the mouse. This feature is very useful for recording slider bars and other kinds of positioning devices.

Improved File Viewing

There are many new convenience features to simplify viewing and graphing of eValid results. Improvements have been made that allow charting of either the last test or all prior tests curerntly in the logs, better control of when logs are purged or appended. See the detailed description of these new viewing features.

Dependent Window Support

We have added support for recording and playback of dependent windows. This feature is important if you are using XML and/or significant amounts of JavaScript which supports communication between a child window (which collects users data) and a parent (which analyzes it). See the complete technical description of this important capability.

Enhanced Link Wizard Popup

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The eValid Link Wizard has been extended to provide for all combinations of either Static or Dynamic, and either Simple or Advanced link checking. Static checking applies to the current page at the time it is recorded; Dynamic checking applies to the page's links at playback time. Simple Checking involves direct use of GotoLink commands, whereas Advanced Checking involves use of ${\tt FolowLink}$ and ${\tt GoBackTo}$ combinations for each link.

Application Mode Recording

eValid now includes a new Application Mode capability to allow recording and playing from an application that runs in the browser, e.g. Adobe Acrobat or MS Word or a Java Application. All keystrokes are recorded with a new AbsSysKey command. The new Application Mode is available from the eValid > Record Mode > Advanced Recording > Application Mode selection.

Time Stamp Capability

eValid now includes the ability to time stamp information into selected text boxes on a page so that you can send the information to the server and check how long a response takes. Here are the available time stamp fields with a sample of the output they produce when used in eValid.

```
%%DYN SHORTDATE%%
                       = 06/15/01
                      = Friday, June 15, 2001
%%DYN LONGDATE%%
                       = 03:49:08 PM
%%DYN_TIME12%%
                       = 15:49:08
%%DYN TIME24%%
                       = 2001:06:15:15:49:08
%%DYN_TIMESTAMP%%
                       = 0992645348.065
%%DYN SYSTIME%%
%%FIX_SHORTDATE%%
                       = 06/15/01
                       = Friday, June 15, 2001
%%FIX_LONGDATE%%
                       = 03:48:52 PM
%%FIX_TIME12%%
%%FIX_TIME24%%
%%FIX_TIMESTAMP%%
                       = 15:48:52
                       = 2001:06:15:15:48:52
                       = 0992645332.913
%%FIX_SYSTIME%%
```

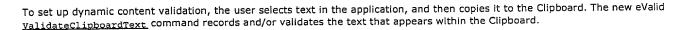
This is a highly useful feature for time-sensitive monitors that must output the results of a form within a certain time. See the Ver. 3.0 documentation for a detailed explanation.

AutoPlay Feature

When equipped with the AUTOPLAY license key, eValid will create the special # AUTOPLAY=key as each recording is completed or after each script edit session ends. An unaltered eValid script with a valid AUTOPLAY tag will play back on any eValid browser -including those which do not currently have an active or valid license. This feature is ideal for creating automatic eValid playbacks that illustrate product operation within the browser, or which provide for training about a complex WebSite.

Validate Clipboard Text

The validation function in eValid has been extended to analysis of contents on the Clipboard. This can be used to handle capture of text that otherwise cannot be validated by regular means, e.g. in an Applet or Application for which text access is not available.



Input Text Encryption

You can now choose to encrypt text entry fields in HTML or in Applet Text Entry elements. Control of this feature is from the ScriptDialog window. The push button ??? toggles between the encrypted and un-encrypted option. Playback of files recorded with the encryption option present, automatically de-crypts the text entry fields.

Hot Key Changes

To avoid conflicts, we have changed the definition of some of the shortcut "hotkeys". See the eValid documentation for details on the new definitions.

Improved Page Timing

In prior versions of eValid, certain types of HTML pages did not always produce completely repeatable download timings. This problem has been repaired in the current release with the introduction of a new, more powerful page download synchronization implementation.

LoadTest STOP Option

We have extended the meaning of the STOP button in LoadTest mode to include turning off <u>ALL</u> of the currently executing subbrowsers. (Previously, they had to be stopped one by one.)

System Information Pulldown

There is a new option on the eValid toolbar at Help > System Information. It will provide precise data about the system you are running on. The most important item is the version of IE you are using. We recommend IE 5.5 at least and IE 5.50 preferrably. This pulldown also gives you the exact name of the machine to which your eValid license applies.

Link Wizard Extensions

There is an expanded version of the Link Wizard that now includes four possible types of automatic link creation. While making a test recording using evalid > Record Mode > Wizards > Link Test Wizard you are given these options:

- Static Simple The recording of links to check is made in the current eValid script file. Link checking is done with the Goto command.
- Static Advanced The recording of links to check is made in the current eValid script file. Link checking is done with a FollowLink command followed by a GoBack command.
- Dynamic Simple The checking of links is done with a DynamicLinkCheck command so that the links being checked are generated from the current page at test playback time. Link checking is done with the GOTO command.
- Dynamic Advanced The checking of links is done with a DynamicLinkCheck command so that the links being checked are generated from the current page at test playback time. Link checking is done with a FollowLink command followed by a GoBack command.

SiteMap Analysis of JavaScript Links

The SiteMap functional has been extended to permit checking of links that appear in JavaScript. This makes it possible to do detailed mappings of sites that have a secure login.

Skip Top Page Refresh Option

There is a new option in the SiteMap Preferences to skip the step that normally re-loads the first page. Skipping top page reload will preserve the state of the eValid browser after a login, for example, when refreshing the page would in some cases cancel the login.

Revised Pricing

To simplify licensing and to provide the greatest flexibility in selecting the eValid features you want, we have made some revisions and simplifications to the Price List. The major change is the introduction of layered licensing, so that you can license only the features of eValid that you need. Please contact eValid at sales@soft.com for information about upgrade pricing if you currently have a Ver. 2.n license key.

Download Locations

If you already have a valid license key you can download the new version of eValid Ver.3.0 from:

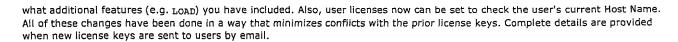
Demo Version: ftp://ftp.soft.com/pub/windows/evalid/demoevalid30.exe Full Version: ftp://ftp.soft.com/pub/windows/evalid/evalid30.exe

Consolidated Documentation

The Users Manual for eValid is now available as a single PDF-format document which is suitable for printing.

Revised Licensing

We have made changes to the licensing to provide for two kinds of selection: which level of record/play capability you have, and



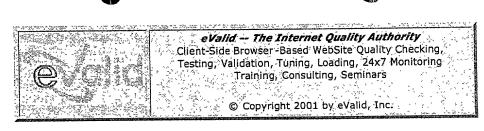
Supported Platforms

We are focusing support for eValid on the Windows NT/2000 platforms. In some cases scripts that work perfectly well on these platforms may have problems if you are running Windows 98 (even when including the latest SP's) and will very likely have severe problems or will fail if you are on Windows 95.

Required Software

Even though eValid is a free-standing browser, its operation is based on and is standardized to interoperate correctly with <u>Internet Explorer</u> We highly recommend you have IE 5.50 on your machine. (Download Internet Explorer Ver. 5.x).

eValid Home



First Timers' Page

Are you a first time eValid user? Here are some facts about eValid that should help you get going with this exciting product.

What Is eValid? [Click here for a picture of eValid's operation.]

- eValid is a fully-featured web browser with embedded mapping, testing, loading, and timing/tuning functionality. It's compatible with the IE browser.
- eValid is your true WebSite <u>Quality Partner</u>. You can use it to find out important things about your WebSite. Or your competitor's WebSite. Or anyone's WebSite.

How Does eValid Get Your Work Done?

- eValid <u>analyzes</u> WebSites by looking at a page and searching through all of the pages that page points to, etc. Because eValid <u>is</u> a browser it find out the data it needs by looking at the pages it downloads. All automatically.
- eValid <u>tests</u> WebSites by <u>recording</u> a test and then <u>playing</u> the resulting test scripts. During playback you're notified if for any reason eValid finds an error. There are very detailed playback logs -- spreadsheet and database ready -- that show everything happened.
- eValid <u>loads</u> your servers by running dozens or hundreds of eValid's in the background. Every copy of eValid is
 independent, and they all play back real scripts -- so there's no question about the accuracy or authenticity of the loading.
- eValid <u>tunes</u> selected pages by collecting very detailed timing data about each and every part of a page. You see these reults in flexible, easy to read charts.

What Is eValid Good For?

- <u>Site Mapping</u>: Search any WebSite or sub-WebSite for timing, size, and link health properties. The only way to find broken links in dynamically generated pages is from a browser! You can get reports that show slow-loading pages -- you set the
- <u>Functional Testing</u>: Record scripts today that capture information about how your WebSite is supposed to be. When you play them back later eValid will find changes and errors!
- Content Validation: Ensure the page you requested is the page you actually get.
- <u>Timing Session</u>: Measure the time to play back a test session one or many pages, including complex transactions, sessions that "maintain state" or use secure protocols.
- <u>Loading Your Server</u>: Hit your WebSite server with many simultaneous page requests from simulated users to see if your server can support high loads. Every simulated user is 100% realistic, because they all run from independent copies of eValid.
- <u>Tuning Page Design</u>: The detailed timings you get show you quickly where the biggest pieces of a page are -- so you know immeiately what to improve!

What Is Unique About eValid?

- <u>It Really Is A Browser</u>: eValid is a full featured IE-compatible browser. Except that it has all of the analysis and test
 functionality <u>built in</u>. The results you get with eValid are 100% identical to what your users see.
- Point and Click Operation: Almost everything is done with simple pulldown menus.
- Fully Functional Browser: eValid is a browser, so its view is the same as your customers'.
- Totally Object Oriented (WYSIWYG): All your tests are purely OO because they relate to the WebSite you're testing as seen from a browser.
- A Powerful Test Engine: If you want to do anything to a WebSite, you can do it with eValid.

What Should I Do First?

First, click on the evalid menu on the browser toolbar. Become familiar with this menu; it's the gateway to all of eValid's powerful functions. Experiment! Have fun trying things out.

Use the eValid > Site Analysis Mode > Site Analysis Preferences to set up a WebSite Mapping. Reports go direct to the screen. Try generating the Unavailable Pages report for www.cnn.com.

Begin creating *.evs scripts for playback. Select evalid > View Script Window to pop up the eValid Script Window. You will be able to see eValid's recording engine create the *.evs script in real time. In the eValid window, type the WebSite where you would like to begin recording into the Address field.

Use evalid > Record Mode > Start Recording to begin recording your first script. Navigate through the pages as you would normally in any Web browser. As you traverse through the WebSite notice how eValid records your actions in the script window. When you are done recording, click evalid > Stop Recording.

The recorded script is now ready to be played back. Start playback with evalid > Playback Mode > Start Playback. You may want to use evalid > View > Event Log to watch what is happening as your script runs.



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Client-Side Browser-Based WebSite Quality Checking, Testing, Validation, Tuning, Loading, 24x7 Monitoring Training, Consulting, Seminars

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Evaluation Hints (Ver. 3.0)

eValid is a powerful tool for testing WebSites, with many features and capabilities. This page provides some basic **hints** on how **best** to evaluate and assess eValid if you are a first-time or inexperienced user -- or even if you are an expert!.

An additional source of hints is the set of Practical Testing Applications of eValid and the collection of Advanced Demo Applications of eValid that show scripts and results.

		eValid Evaluation Hints
Study The Menu	Ħ	lick on the evalle entry on the toolbar and study the menu and pulldown structure. Click on the elp > Decumentation > Oser Manual and get a feel for the way the documentation is organized.
		Mapping Sites
Gene a Sitel	3	Navigate to some website for which you want a SiteMap analysis. Click on eValid > Site Analysis flode > Start Start Analysis and watch as eValid visits pages, filters results, and constructs the SiteMap before your eyes.
	te Slow- ling Pages	rollow the step by step instructions to generate a report showing slow loading pages. Watch as eValid visits every page on the selected site and filters out the ones that load too slowly.
		Functional Testing
Wate The Reco		Use the sequence ${ t eValid} > { t View} > { t Script} { t Window}$ to view the script file as you create it during a recording.
Nav	igation	Navigate normally, as you would with any Web browser. Note how eValid records details of your navigation in the script file
	itent idation	Use the pulldown menu sequence eValid > Record Mode > Validate > to validate the WebSites' text, elements, size, date, etc. Study what eValid puts in the script file it is the data that will be checked on playback.
Mot	cording useClicks, useOvers	Keep in mind that some options found in evalid > settings > Preferences > Advanced Preferences will override Applet MouseClicks found on some WebSites; Options available include recordings of MouseClick, and MouseOver.
Spo	otCheck	Perform spot-checks to see if any of the text or objects in the WebSite have been changed.
		During a recording select a piece of text (200 character limit) by right-clicking with the mouse. Then use the nulldown sequence evalid > Record Mode > Validate > Selected > Text to record the

Timing/Tuning

Timing At the beginning of the recording use the pulldown sequence eValid > Record Mode > Timer

highlighted text for future validation.

use the pulldown sequence evalid > Record Mode > Validate > Selected > Text to record the



Reset Times to reset the internal times. Make you recording as you would normally. Then use the pulldown sequence evalid's Record Mode's Times's Read Times to read the value of the times.

You can reset and read the timer as many times as you want. On playback you can see the timing data using the sequence evaluate View a Timing Log

Charts

Use the pulldown sequence <code>eValid</code> > <code>View</code> > <code>Log Charts</code> to see graphic representations of playbacks you have completed.

Increasing the Detail

Use the pulldown sequence eValid > settings > Preferences and choose the Detailed Log Messages option. This will generate the greatest amount of detail and make the charts more useful.



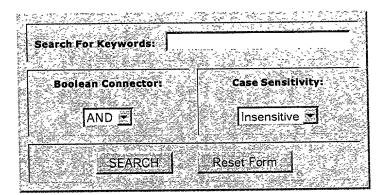
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eValid Documentation Keyword Search

To search the eValid documentation simply type in search keywords you are looking for. Do not include any punctuation and special characters. The search will include all pages in the complete eValid Documentation.







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Page Metrics Popup eValid Home

The Metrics Popup is intended to act as a complexity monitor as you navigate WebSites with the eValid browser.

Sample Display

Below is a sample of the Metrics PopUp you see when you have the eValid Metrics PopUp feature turned on.

evalid Page Metrics	for i./				
Base Page Size	17938				
Page Last Modified 06/07/2001	16:57:12				
Bytes (newly) Downloaded	289670				
Files (newly) Downloaded	268				
Download Time (secs)	3.375				
Number of HTML Elements	359				
Number of Frames	0				
Number of IFrames	0				
Number of HyperLinks	41				
Number of Images	60				
Number of Hidden Fields	8				
Number of Inline Scripts	2				
Number of Executable Objects	0				
Number of LINK Tags	1				
Number of META Tags	20				
Visible Text Character Count	755				
Metrics Information					

Turning On Page Metrics

You can toggle the Page Metrics display ON and OFF with the command eValid > Display Page Metrics .

Once the Page Metrics display says ON it will stay ON until you turn it OFF or start an eValid playback session.

The Page Metrics popup is available to you whenever you use the eValid browser. The Page Metrics always applies to the current page (the page you have just viewed). You do not need a valid license key to use this feature of eValid.

Page Metrics History

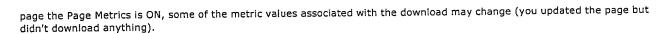
The Page Metrics keeps a history on pages visited. To clear the history, turn the Page Metrics OFF and then back ON.

Metrics For Multiple Frames

The data shown is always for the *first frame* if there are multiple frames. To read the metric data for other frames on the page, position the cursor within the frame in question and use Ctrl + Left Click.

Additional Comments

The Page Metrics data pertains to the current page, and it is derived as the page is downloaded. If you refresh your view of that



It is best to operate with the eValid Cache Manager set to <u>Never Use Cache</u> so that you always see the effect of downloaded pages. Of course, pages that are not in the cache are *new* and their characteristics are always displayed.



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Page Metrics Popup Definitions eValid Home

The Metrics Popup is intended to act as a complexity monitor as you navigate WebSites with the eValid browser. Here are the definitions of the values displayed.

The Metrics Popup is an immediate complexity monitor for pages you visit as you navigate WebSites with the eValid browser.					
Return to Metrics Popup					
Hetric Name	Description				
Base Page Size	Size in bytes of URL basic page				
Page Last Modified	Time Stamp (dynamic pages will show current date & time				
Bytes (newly) Downloaded	Total number of bytes downloaded & cached				
Files (newly) Downloaded	Total number of files downloaded & cached				
Download Time (secs)	Time taken to download and render the page				
Number of HTML Elements	Count of all Tags on the page				
Number of Frames	Count of all FRAME Tags				
Number of IFrames	Count of all IRRANA Tags				
Number of HyperLinks	Count of all 'href's in & & AREA Tags				
Number of Images	Count of all images on the page				
Number of Hidden Fields	Count of all INPUT Tags with type=hidden				
Number of Inline Scripts	Count of all SCRIPT Tags				
Number of Executable Object	S Count of all OBJECT Tags, includes Applets, Flash, etc.				
Number of LINK Tags	Count of all LINK Tags (found in HEAD)				
Number of META Tags	Count of all META Tags (found in HEAD)				
Visible Text Character Count	All visible text characters (including Title)				

Turning On Page Metrics

You can toggle the Page Metrics display ON and OFF from the eValid menu: eValid > Display Page Metrics.

Once on the Page Metrics says ON until either you turn it OFF or until you start an evalud recording or playback session.

The Page Metrics popup is available to you whenever you use the eValid browser. The Page Metrics always apply to the current page (the page you have just viewed). You do not need to have a valid license key to use this feature of eValid.

Additional Note

The Page Metrics data pertains to the current page and it is derived as the page is downloaded. If you refresh your view of that page some of the metrics values associated with the page may change (you updated the page but you didn't download/cache anything new).

You can clear the cache at any time by using the Delete All or Delete Selection buttons in the eValid Cache Manager.

Return to Metrics Popup

You can toggle the Page Metrics display ON and OFF with the command eValid > Display Page Metrics.

Once on the Page Metrics says ON until either you turn it OFF or until you start an eValid playback session.

The Page Metrics popup is available to you whenever you use the eValid browser. The Page Metrics always apply to the current page (the page you have just viewed). You do not need to have a valid license key to use this feature of eValid.

Page Metrics History

The Page Metrics keep a history on pages visited. To clear the history turn the Page Metrics OFF and then back ON.

Metrics For Multiple Frames

The data shown is always for the first frame if there are multiple frames. To read the metric data for other frames on the page, position the cursor within the frame in question and use \mathtt{Ctrl} + \mathtt{Left} Click.

Additional Comments

The Page Metrics data pertains to the current page and it is derived as the page is downloaded. If you refresh your view of that page the Page Metrics some of the metric values associated with download may change (you updated the page but didn't download anything).

It is best to operate with the eValid Cache Manager set to Never Use Cache so that you always see the effect of downloaded pages. Of course, pages that are not in the cache are new and their characteristics are always displayed.



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QuickLook: The eValid WebSite Test Solution

eValid changes your thinking about testing WebSites!

eValid is a patent-pending Test Enabled Web Browser(tm) for Windows NT/2000. eValid performs all functions needed for detailed WebSite static and dynamic testing, QA/Validation, page timing and tuning, and realistic and scalable load generation.

Because eValid is a browser it has native capabilities that handle testing of WebSite features that are difficult, awkward, or even impossible with other methods such as those based on viewing a website from the Windows OS level.

Download a FREE Auto-EVAL, DEMO or extended EVAL Version.

The eValid product suite has a very rich technical feature set that supports site mapping, functional testing, website timing and tuning, and loading and capacity analysis, Java coverage analysis, and test data generation (Suite Architecture):

eValid -- General Features

- Full capability browser (100% IE compatible).
- . Intuitive on-browser GUI and documentation.
- Record/playback of sessions in combined RealTime and ObjectMode.
- · Fully editable recordings/scripts.
- LogFiles 100% spreadsheet, database ready.
- Full support for testing all types of user-interactivity: HTML forms, Java Applets, Modal Dialogs, etc.

eV.SiteMap -- WebSite Mapping & Analysis

- Controlled website search limited by depth, number of pages, total time, protocols, file extensions.
- Selection of search mode (Full/foreground, background, quick).
- Multiple real-time report filters: slow-loading pages, unavailable links, too-old links, too-large links.
- Search all examined pages for string match/not-match.

eV.Testing -- Functional Testing & Content Validation

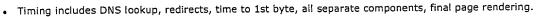
- Multiple content validation modes: content, document features, URLs, text fragments, selected images, image parts, and applets.
- JavaScript and VBScript fully supported.
- Advanced Recording features for Java applets, ActiveX controls, Modal Dialogs.
- Wizards to exercise all links on a page, push all buttons on a FORM, and manipulate a FORM's complete contents.
- Pause/Resume, SingleStep, Run Multiple, Run Forever playback control.
- Screen area validation and playback synchronization.
- Secure session support.
- Command line interface and interactive API interface.

eV.LoadTest -- WebSite Loading & Capacity Analysis

- 100% browser-based user scenario simulations.
- LoadTest feature chains multiple scripts into realistic loading scenarios.
- Multiple-browser (e.g. 100+) auto-launch.
- . Dialup modem simulation (8-1024 kbps).
- Cache management feature to play back tests with no cache or an initially empty cache, with or without cookies.
- Unlimited simultaneous user LoadTest licensing.
- · Advanced interactive API interface available.

eV.Tuning -- WebSite Timing & Page Tuning

Detailed timing including analoysis of 1st and 2nd tier transaction times.



- · Session time limits and alarm sequences.
- Event, timing charts, performance, and history charts.
- Page tuning data and performance timings to 1 msec resolution.
- · Built in graphical reporting.
- Synchronization for Flash, Shockwave, etc.

eV.Generate -- Test File Data Generation

- Creation of sequential data to a parametric script file.
- · Creation of random data to a parametric script file.
- · Capacity for large amounts of data.

eV.Manager -- Test Suite Management

- Creation of a test tree to handle 100's to 1000's of eValid tests.
- Selection of tests to excute under eV.Manager control.
- Automatic execution of tests with complete result logging.
- PASS/FAIL reporting, regression reports, complete test history.
- Simplified test script check-in and update.

eV.Coverage -- Java Applet/Application Test Data Coverage

- Instrumentation with TCAT/Java.
- Online coverage data collection via jruntime.
- TCAT/Java reporting of complete test coverage.

Resources Supporting eValid

- · A detailed feature/benefit analysis .
- A description of the powerful eValid LoadTest feature.
- A quick look at the eValid GUI.
- An on-line pricing and order form.



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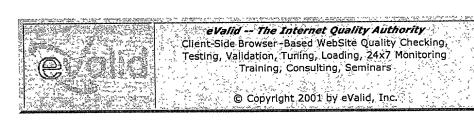
Getting Started

eValid is a full featured Web browser. Use it to surf the Web normally. It's also a powerful site analysis, test record/playback tool, timing and tuning system, and load generation system. As a record/playback engine eValid can record and play your navigation, validate content, run timing tests, or run test wizards on any WebSite. Scripts are easy to understand and fully editable.

- Status Indicator. Browsing, recording, playing back: your status is shown by the icon in the upper right hand side of your eValid browser.
- View the Script and Event Log Files During Recording or Playback. Click eValid > View > Script Window to bring
 up the Script File Window. Click eValid > View > Event Log to bring up the Event Log File Window. When you are
 making a recording or playing back a script you can see what eValid is doing.
- Your First Recording -- To Check Links -- Made Simple! Click your way to a simple link check recording:
 - Click evalid > Record Mode > Start Recording. You're now recording! Navigate to your home page or any page with some links.
 - o Click evalid > Record Mode > Wizards > Link Test Wizard
 - Click eValid > Record Mode > Stop Recording. Your recording is done.
 - o Check the script file you generated with evalid > View > Script Window
 - o Click evalid > Playback Mode > Start Playback. You are now playing back an eValid script file.
 - o Click evalid > View > Message/Error Log. If any links are missing you'll see error messages identifying them.
- Timing a Multi-Page Test. It's simple to time a sequence of actions. Start your recording and then:
 - Click eValid > Record Mode > Timer > Reset Timer. This resets the internal timer.
 - o Continue navigating to as many pages as you like. Note how eValid records your actions.
 - Click eValid > Record Mode > Timer > Read Timer. Or you can set an alarm with a message by selecting
 eValid > Record Mode > Timer > Set Alarm.
 - o Click evalid > Record Mode > Stop Recording, then evalid > Playback Mode > Start Playback.
 - o When done click evalid > View > Timing Log to see the elapsed time of your test
- Additional Hints. Here are some additional hints on how to do simple recordings.
- Documentation. Click Help > Documentation > User Manual to reach the complete User Manual for eValid.

Have fun with this great new technology! Experiment! Test it out! There's no limit to the kinds of testing you can do on your site with eValid.

In case you find something -- anything -- that doesn't work, or if you need help of any kind, send Email to support@soft.com



Getting Started PopUp (How To Use The eValid PullDown Menu)

eValid is a very intuitive tool that quickly and efficiently creates tests of WebSites by recording user actions, noting properties of pages, and playing back tests with built-in validation checking and performance timing. Tests like these are very powerful in detecting WebSite page changes, imposing load on a server, and in validating content of pages.

This page aims to give you a **Quick Start** in using the eValid product. We've added helpful hints in key places on this page. When you see this hint image (**Hint!**), position your mouse over the symbol to get additional information.

If you feel you are already familiar with eValid's basics, we also have compiled some Helpful Hints on Creating Tests with eValid.

- 1. Launching eValid
- 2. The PullDown Menus
- 3. Making a Recording
- 4. Playing Back A Recording
- 5. Viewing Files
- 6. Using the Timer
- 7. Editing a Recording
- 8. Using the Link Wizard
- 9. Using the FORM Wizard
- 10. Using the Button Wizard

- 11. Validation Functions
- 12. Recording a BenchMark Test
- 13. Recording an E-Commerce Test
- 14. Recording a Security Test
- 15. Recording a SpotCheck Test
- 16. User Preferences
- 17. Cache Management
- 18. Advanced Recording
- 19. Charts
- 20. Getting Help

Go to the eValid WebSite

1. Launching eValid [Top]



Click the evalid icon on your screen to launch eValid. The display looks just like the IE browser, except you'll see that there are some extra buttons. This IE-like browser is eValid, a Test Enabled Web Browser. Hint!

eValid must be on the web in order for it to work, but, depending on your license key, you may be able to work on an intranet as well. Hint

Don't look for any extraneous IE features within the eValid browser window; these have been taken out of eValid so you can concentrate on testing your WebSite.

2. The PullDown Menus (evalid and Help) [Top]

eValid Help Ctil+N New Script Ctrl+Alt+N New Load Test Ctd+Alt+O Open Script Chi+Shift+O Open Load Test Record Mode Playback Mode Site Analysis Mode View Settings Display Page Metrics Send Script to eValid Inc.: F10

Find the evalid button on the eValid tool bar.

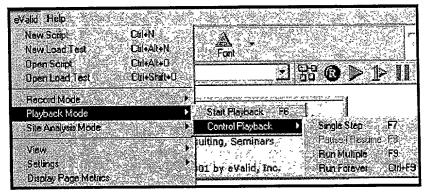
Click $_{\tt eValid}$ to pull down the main eValid functions. The picture at the left shows the options on the $_{\tt eValid}$ menu.

Actions you can take are in solid letters, like evalid > Record Mode > Start Recording in the sample. Conditional actions are shaded out; they change into solid letters when they are available functions for you to use. For example, it makes sense that you wouldn't expect to use the evalid > Record Mode > Wizards > Link Test Wizard unless you are recording a test. Hint!

3. Making a Recording [Top]

Click evalid > Record Mode > Start Recording. From this point on until you click evalid > Record Mode > Stop Recording everything you do in the browser is saved to the *script file* for later playback. *Hint!*

4. Playing Back A Recording [Top]

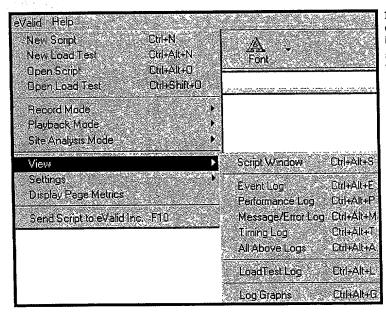


If you've just recorded a script file it is already in eValid's memory. Or, you can click evalid > open script to play back a script that you have recorded earlier.

Click eValid > Playback Mode > Start Playback when you want to play back your recording. eValid will follow your actions exactly as you have recorded them. Click eValid > Playback Mode > Stop Playback when you want stop playing back.

You have control over playback by clicking On eValid > Playback Mode > Control Playback. Then you can choose to Pause or Resume. You can also select single Step, enabling you to see the effect of each recorded event in the script file. Also available is an option to playback the script multiple times by selecting Run Multiple, or run the script infinitely by selecting Run Forever. Hint!

5. Viewing Files [Top]



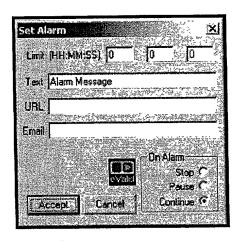
It may help you to view the *script file* -- and other eValid files -- to see exactly how eValid is interpreting your actions. Click eValid > View > Script Window to open a dialog box that shows you your script file.

Under the <code>evalid</code> > <code>view</code> menu you can view the <code>Event Log</code> that shows a complete record of activity, the <code>Message Log</code> where warnings and errors are written, and the <code>Timer Log</code> which shows the output of the timer.

6. Using the Timer Function [Top]



The timer records
elapsed time in
milliseconds. Click
eValid > Record
Mode > Timer >
Read Timer to read
out the time, as often



as you like, in your recording. You can also Click evalid > Record Mode > Time > Reset Timer to set the timer to zero. Before the timer is reset, it will read out the accumulated time up to that point.

You can create notification alarms in your script by choosing evalid > Record Mode > Timer > Set Alarm. This will open a dialog box where you can specify when you want the alarm to occur (expressed in Hours, Minutes, Seconds) and the text you want to be printed to the event log with the alarm. Once you've decided this, click Accept and the alarm will be entered in your recording. ####!

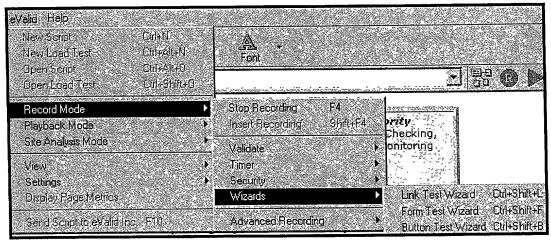
Click Cancel if you change your mind.

7. Editing a Recording [Top]

Sometimes you may want to edit your recording. Click eValid > View > Script Window to open the dialog box that shows the script file, then click gdit. When you've completed your edits, click save.

To start playback simply click evalid > Playback Mode > Start Playback

8. Using the Link Wizard [Top]



If you have a page with a lot of links and you want to go to them all to make sure they are OK you can make a recording using the Link Wizard.

Start your recording in the usual way. Then, go to a page where you want to check links. Click evalid > Record Mode > Wizards > Link Test Wizard • eValid will automatically insert a reference to every link on your page at that

point in your script file. When you play back your script file you can watch the screen or read the messages in the error log to see if any links failed. Hint!

Remember when using the Link Wizard (or any of eValid's Test Wizards) that the "recording" you are making is often less robust than the one you make manually for the same page. The Link Wizard is smart, but it doesn't know everything.

9. Using the FORM Wizard [Top]

Start your recording in the usual way. Click eValid > Record Mode > Wizards > Form Test Wizard. eValid will automatically insert a reference to every FORM element on your page at that point in your script file.

During playback eValid will visit every FORM element, typing in a standard phrase into every text-entry field and clicking all of the buttons on the page.

10. Using the Button Wizard [Top]

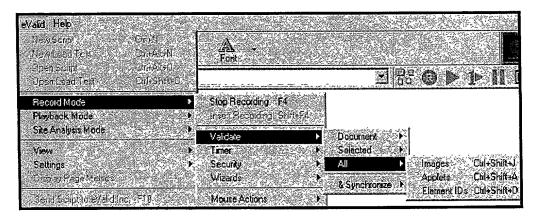
Start your recording in the usual way. Click evalid > Record Mode > Wizards > Button Wizard. eValid will automatically insert a reference to every active button on your page at that point in your script file.

During playback eValid will visit every one of these active buttons and click them. (The wizard will "push all your buttons" but doesn't know what they do, so you may have to edit your script file if the actions that result from "push all your buttons" don't make sense.)

11. Validation Functions [Top]

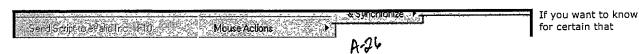
There are several ways to validate the contents of a page on your website: Hint!

- Properties of the entire Document (eValid > Record Mode > Validate > Document > ...),
- Properties of selected parts of the document (evalid > Record Mode > Validate > Selected > ...), or,
- All features of the document (evalid > Record Mode > Validate > All > ...)



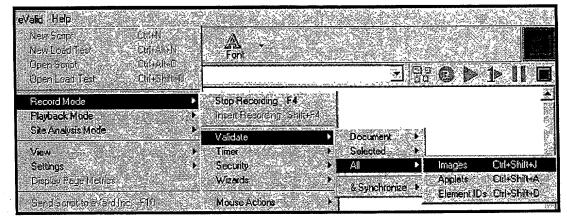
Use the menu sequence evalid > Record Mode > Validate > Document to Validate:

- The URL of the document (this is important if you are going to a page that redirects to a page whose URL you don't know but want to confirm);
- Elements, i.e. the number of elements in the page;
- The size of the document in bytes;
- The Last Modified Date of the document.



features of a page stays the same you can Validate Selected Text on parts of your page during a recording. During a recording session use the mouse to highlight a section of the page that you want to confirm. Then click eValid > Record Mode > Validate > Selected > Text.

eValid remembers the text you highlighted and if that text has changed *logical position* during playback you'll get an error message. This is a very powerful feature because the script file will cause an error message if at some time in the future your page has changed in any way that invalidates the text.



Lastly, you can select evalid > Record Mode > Validate > All > Images Or evalid > Record Mode > Validate > All > Applets.

When you validate images you make a record of every image currently in the page and record it in such a way that if any images change during playback an error message will result.

When you validate applets you make a record of every applet referenced on the page and record it in such a way that if the applet is not present or changes size an error message will result.

These validation procedures refer to *Element ID's*. These numbers are generated for each *element* of the HTML page (text, images, applets, etc.) when the page is read into the browser. eValid uses these *Element ID's* to refer to the exact portion of the page that you wish to be validated.

12. Recording a BenchMark Test [Top]

A BenchMark Test measures the amount of time a sequence of browser action takes. Briefly, the test starts the timer, browses to a number of pages, and then reads the timer. Because eValid runs from a browser -- just like you do -- the times measures are very realistic.

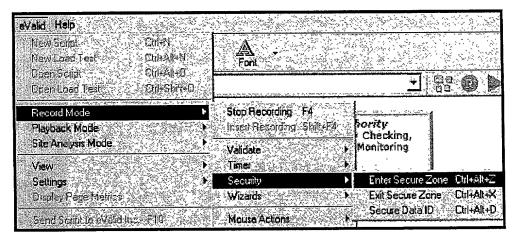
We've put together a special set of "how to" instructions to help you Create a BenchMark Test. Hat!

13. Recording an E-Commerce Test [Top]

An E-Commerce test tries out an E-Commerce application by going to an E-Commerce site, selecting an object to purchase, making the purchase and taking care of the payment (or, at least, simulating taking care of the payment), and confirming that the order was placed correctly. If you run an E-Commerce test you confirm that your E-Commerce site is working normally, and you detect any errors along the way.

We've put together a special set of "how to" instructions to help you Create an E-Commerce Test. Hint!

14. Recording a Security Test [Top]



A Security Test tries out a login activity on a WebSite by trying both a legal login (which should PASS) and an illegal login (which should FAIL). Running a Security Test confirms that the essential protections in a login area are working.

To make it possible for eValid to handle a secure transaction reliably you will probably want to record eValid > Record Mode > Security > Enter Secure Zone When you enter the secure area and record eValid > Record Mode > Security > Exit Secure Zone when you leave the secure area. Turning the secure area processing changes the way the playback is handled so that it is compatible with secure transactions.

We've put together a special set of "how to" instructions to help you Create a Security Test. Hint!

15. Recording a SpotCheck Test [Top]

A SpotCheck Test uses the <code>evalid</code> > <code>Record Mode</code> > <code>Validate</code> > <code>Selected</code> > <code>Text</code> feature to make sure several parts of one or many pages has not changed. Briefly, a SpotCheck test protects you against unnoticed changes -- either by your own staff or from outside "hackers" -- by baselining a set of pages and key passages in those pages. Running the SpotCheck test will tell you that the pages are OK -- or it detects when there were changes made from the baselined behavior.

We've put together a special set of "how to" instructions to help you Create a SpotCheck Test. Hint!

16. User Preferences [Top]

Click To Expand Image Below.



There are many User Preferences that affect how your make your recording, how you save the script files, and how you play back the recording. (evalid > Settings > Preferences) First!

17. Cache Management [Top]

Click To Expand Image Below.



The eValid browser, like its IE Browser counterpart, includes powerful caching capabilities that enhance the performance of the browser during normal operation. However, the behavior of the cache can perturb or distort response timings in complex ways.

To give eValid the greatest flexibility as a test and measurement tool we have built in a detailed Cache Management function that lets you choose between many options in how you want the internal cache handled. (evalid > Settings > Cache Manager) Hint:

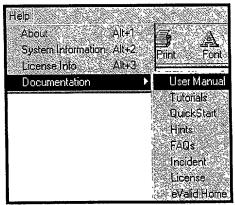
18. Advanced Recording [TOP]

In some cases the WebSite you're testing requires just a bit more work than simply recording what you do. Advanced Recording is a set of special eValid features that lets you handle Modal Dialogs, certain kinds of Java Applets, windows that require scrolling, etc. There is a complete description of the Advanced Recording Features. (eValid > Settings > Preferences > Advanced Preferences) First:

19. Charts [Top]

There are various charts you can generate from the logfiles that are generated by eValid during a playback session. These are described in a Chart Description Document.

20. Getting Help [Top]



There are many ways to get help with the usage of eValid:

- eValid User's Manual (Help > Documentation > User
- eValid FAQ (Help > Documentation > FAQs)
- · Various Online Documentation

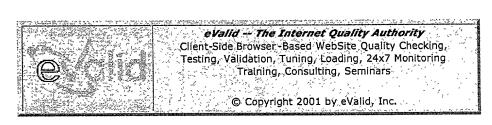
These tools will help you how to use eValid at its maximum potential.

Click Help > About to learn about the version of eValid you are using.

Click Help > License Info to learn the details of the eValid license you are using.

Click \mathtt{Help} > $\mathtt{Documentation}$ > ... to get to any of these kinds of information:

- User Manual for the complete User Documentation for eValid.
- Tutorials for the complete User Documentation for eValid.
- QuickStart for the QuickStart page for eValid. Hint!
- Hints for Helpful Hints section that describes some common types of eValid tests.
- FAQs to read the FAQs for eValid.
- Incident to go to the Incident Reporting Form for eValid, in case you encounter any problems.
- License to read the license agreement that governs eValid's use.
- evalid Home to go to the eValid Homepage.



eValid AutoDemo Playback (for eValid Ver. 3.0)

Introduction: The eValid *AutoDemo Playback* feature plays back pre-recorded scripts supplied direct from our WebSite. Click on your script choice below and follow the instructions on the next screen.

Important: The scripts that you can play back with this feature are pre-programmed to work **only** with eValid Ver. 3.0. Please download the latest version of eValid if you would like access to this feature. AutoDemo playbacks may not work with eValid installations on certain versions of Windows 95 and 98. We recommend Windows NT/2000 for reliable AutoDemo operation.

<u>Yahoo! Login Demonstration</u>
<u>Navigation Demonstration</u>
<u>Charts Demonstration</u>
<u>Applet Playback Demonstration</u>

Tutorial Scripts

<u>Interface Tutorial</u> <u>Logs Tutorial</u> <u>Link Confirm Tutorial</u> Page Tuning Tutorial
Performance Check Tutorial
Timer Alarms Tutorial

<u>Server Loading Tutorial</u> <u>Login & Logout Tutorial</u> <u>Ecommerce / Email Portal Tutorial</u> Applet Recordings Tutorial Modal Dialogs Tutorial Validating Visual Multimedia Tutorial



eValid Home



eValid - The Internet Quality Authority

Client-Side Browser-Based WebSite Quality Checking, Testing, Validation, Tuning, Loading, 24x7 Monitoring Training, Consulting, Seminars

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eValid -- Training Material

How To Use eValid Training Material This material consists of Slide Presentations that can be viewed in three ways:

- Manual Presentation. Click on the script and you'll see the slide sequence presented to you for manual viewing. The number of ViewGraph frames in each sequence is given.
- Script Playback. Click on this selection, select the entire script, and past it into any eValid playback engine. Then click eValid > Playback Mode > Start Playback to see the script run automatically.
- AutoDemo Playback. Click on this selection and you'll be taken to the correct AutoDEMO page. Then Click
 on play Selected Script Now and watch as eValid plays back the script automatically.
- PowerPoint Slides. Click on this selection to retrieve the PowerPoint (PPT) frames used in the other material.

No.	Sequence Name	Description:	Manual Presentation	eValld Training Script (Manually Started Playback)	AutoDemo Playback	Download PPT
1	eValid User Interface	Familiarize yourself with the eValid interface.	[9 Frames]	Script 1	AutoPlay	[PPT 1]
2	eValid Log Files	Learn how to understand eValid's logging functions and logging preference options.	[11 Frames]	Script 2	AutoPlay	[PPT 2]
3	Link Confirmation	Learn how to use the eValid Link Wizard to confirm that links on a particular page are valid.	[12 Frames]	Script 3	AutoPlay	[PPT 3]
4	Page Tuning	Examine a page to see which elements take the most time to download, which is useful for optimizing page download times.	[12 Frames]	Script 4	AutoPlay	[PPT 4]
5	Performance Check	Examine a set of pages to evaluate the average download times for pages served from your WebServer	[13 Frames]	Script 5	AutoPlay	[PPT 5]
6	Timer Alarm	Learn how to set an alarm that, at a specified time threshold, will perform an action that can include Email notification.	[9 Frames]	Script 6	AutoPlay	[PPT 6]

	7	Server Loading	Create, run, monitor and evaluate an imposed load on your WebServer.	[10 Frames]	Script 7	AutoPlay	[PPT 7]
	8	Login & Logout	Learn how to validate your WebSite's authentification process.	[9 Frames]	Script 8	AutoPlay	[PPT 8]
	9	E-Commerce	Learn how to simulate user activity on a transaction based Web service. Take advantage of eValid's ability to "maintain state".	[11 Frames]	Script 9	AutoPlay	[PPT 9]
TI K	10	Applet Recording	Learn how to use eValid with embedded applications such as Flash and Java.	[7 Frames]	Script 10	AutoPiay	[PPT 10]
	11	Modal Dialogs	Learn how to manipulate modal dialogs.	[11 Frames]	Script 11	AutoPlay	[PPT 11]
	12	Video	Learn how to validate embedded video.	[6 Frames]	Script 12	AutoPlay	[PPT 12]



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Client-Side Browser-Based WebSite Quality Checking, Testing, Validation, Tuning, Loading, 24x7 Monitoring Training, Consulting, Seminars

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Quick Tour of eValid

Introduction

This User Manual illustrates how to use eValid by taking you on a simple tour of all of the facilities in eValid.

GUI Operation

eValid is a full-featured Web Browser that has been "test enabled". eValid adds special testing functionality that permits you to record or create WebSite tests, play them back automatically, and generate tests having certain properties.

eValid is an "execution engine" for a full-featured test activity aimed exercising the main features of a complex WebSite. It should be used in conjunction with a test management system such as eV-Manage, which has the capability to launch individual tests that invoke eValid's playback capability.

Keyboard Short Cuts

Many of the user functions can be accessed with function keys or other keyboard combinations. There is a Keyboard Short Cut Summary available.

Starting Up eValid



You start up eValid Ver. 3.0 by double clicking on the product icon.

After installation you will see a pair of icons in the eValid installation area. You can drag the eValid icon to your screen as a shortcut.



This is how the screen looks when you start up eValid. The initial screen is the "banner" for the product, and gives you immediate access to the Help System. The Help System is implemented in HTML and includes this document.

eValid Browser Operation



The eValid browser works like your regular browser. It has all the essential operational features of a browser.

The first row of the eValid frame includes a range of pulldowns, most of which have their normal meaning as a WebPage browser.

- File.
- . View.
- . Go.
- Favorites.
- Tools.
- eValid. eValid menu. Access all of eValid's functions from this menu.
- Help. Help menu. Get help for eValid from this menu.

The second row of the eValid frame includes icons and fields as follows:

- Back. Go back to the prior page (if any).
- Forward. Go forward to the next page (if any).

- . Stop. Stop the current activity.
- . Refresh. Redraws the current page.
- Home. Go to the specified home page.
- Search. Invoke search engines.
- . Print. Invoke the printer.
- . Font. Select fonts and choose font size.

The next line is the familiar Web Browser path, which shows the path (URL) of the page you are viewing.:

The title of the page you are viewing is given on the top of the display.

Help Pulldown

The Help Pulldown gives you access to eValid facts, the User's Manual, and to FAQ's about eValid.



Help > About will give you the basic facts about the eValid build you are using.

Help > Documentation > User Manual will link you directly to the current eValid User Manual.

Help > Documentation > FAQs will link you directly to the current eValid Frequently Asked Questions (FAQs).



The image at the left shows the result of the Help > About option.

eValid Operation Pulldown

Operation of eValid is simple and straightforward. You can make a recording, save it into a file, play it back, or play back some other file that you recorded previously. During recording or playback operations you can view four different "dialog boxes" (see below).

Functions available to you depend on the state of the recording process; if a command is "grayed out" that means it is unavailable at that point. For example, evalid > Record Mode > Validate > Selected > Text is available only during a recording operation.

These options control all eValid functions and facilities.

- Load Script File: Deciare and open the current script_file . eValid > Open Script.
- Start Recording: Start recording into the current script_file. eValid > Record Mode > Start Recording.
- Stop Recording: Stop recording into the current script_file. evalid > Record Mode > Stop Recording.
- Start Playback: Start playback of the recording in the current script_file · eValid > Playback Mode > Start Playback ·
- Stop Playback: Stop playback of the recording in the current script_file · eValid > Playback Mode > Stop Playback ·
- Control Playback: Single Step, Pause and Resume, Run Multiple, and Run Forever for the current script file. eValid > Playback Mode > Control Playback
- Validate Text: Add a validation checkpoint to the current script file. You do this by selecting text from the screen so that it is highlighted, and then click on this item. What is saved in the script_file is enough information so that, during playback, if the selected text is NOT equal to what was recorded then an error message results. Including options for Document, Selected or All. eValid > Record Mode > Validate > Selected > Text.
- Timer: Invoke the built-in 1 msec. resolution timer.
 - o You click on Reset Timer to enter a timer reset command in the script file. eValid > Record Mode > Timer > Reset Timer.
 - You click on Read Timer to enter a timer read command in the script file. eValid > Record Mode > Timer > Read Timer.
 - o On playback the Timing Log will show actual time values the correspond to these requests. evalid > view >



- o You click on Set Alarm to trigger an alert in the script file. evalid > Record Mode > Timer > Set Alarm.
- Wizards: Run one or more of the powerful eValid test creation wizards. See below. eValid > Record Mode > Wizards
 > ...
- View: choose which files to view as eValid is working. See below. eValid > View > ...
- Security: choose to enter or exit secure zone. eValid > Record Mode > Security.
- Preferences: Choose certain user-selectable delay preferences. eValid > Settings > Preferences ·

eValid Views



This pulldown gives you control over four important files that always accompany eValid operation.

These files are dialogs that are connected to the eValid version you are working with and as a result you can view these files only during the current session. As with any dialog box you can show any or all of them along with the eValid GUI; they will all disappear when you terminate your eValid session.

- Script File: This activates an on-screen display of the current script file. evalid > view > script Window.
- Messages: This activates an on-screen display of the current messages file. evalid > view > Message Log. All
 Messages, Warnings, and Errors appear in this dialog box.
- Timing Log: This activates an on-screen display of the current timing file.eValid > View > Timing Log. All outputs from the built in timer appear in this dialog.
- Events Log: This activates an on-screen display of the current events output. eValid > View > Event Log. A selection of main events that affect eValid operation during playback, including timing information and Messages, Warning and Errors appear in this dialog. Note that this file may be quite verbose.
- View All: For display of files. eValid > View > All Above Logs



The image at the left is typical of these dialog boxes. This one shows a typical script file after creation and prior to replay.

Validate Text Operation

Role of function Example of selection Resulting script File

The image at the left shows a highlighted text that has been selected by the tester and the corresponding recorded script file with the selected text recorded.

The text highlighted is "capture replay system". During playback if this text is not present in the page in the same position logically then an Error is issued. The checking is *independent* of the page size and type font but instead is dependent on the text being in the underlying representation at the same logical location.

This validation step makes the playback tolerant (i.e. accepting of) unimportant changes in the geometry of the rendering from the downloaded page. At the same time the playback is **very** sensitive to changes in content.

- A document by elements, size or last modified date.
- by selected text or images.
- · by all Images or applets.

Using the Timer Function



You can edit any script file, whether you recorded it or created it manually or edited it from a recording that you did manually, to invoke the built-in timer capability.

Times are reported in whole seconds with millisecond (msecs) resolution. Timings are accurate overall to 0.1 msec.

You reset the timer with eValid > Record Mode > Timer > Reset Timer, as seen in the example script.

You can read the timer at any time without resetting it by using the command eValid > Record Mode > Timer > Read Timer, as seen in the example script.

eValid Preferences



Certain user preferences can be adjusted during eValid execution time using the **Preferences** option. The preferences display shown in the picture indicates the delay preferences that you can select.

Fully Worked "example1.html"



Here is the input file <code>example1.html</code> as it displays in the eValid browser. What this page illustrates is one each of the main types of HTML constructions, links, anchors, user type-in fields, links to images that exist and that don't exist, etc. The idea is, this page has one each of all of the main types of HTML text, and a good sample of kinds of error that eValid can effectively detect.



For the examplel.html page just described to be representative of real-world WebSite pages that perform useful interactions between the client and the server, being able to simulate an actual transactions is critical. In other words, our examplel.html and the associated Cgi-Bin files that generate a response from it have a closed-loop response connection where the output is an active function of the submitted input.

Here is the response file that results from the above display after SUBMIT FORM is clicked, as it displays on the eValid browser.

What is not shown is the $_{\text{Cgi-Bin}}$ script (which in this case happens to be written in PERL) that converts the data sent to it by the FORM processing into the HTML response page seen in this picture.

eValid Wizards

This pulldown gives you access to important test wizards that make your work a lot easier. Each eValid test wizard generates in the current script file a specific kind of test for the page in view at the time that you click the wizard button.

All such tests are delivered into the current script_file. Here is a sample picture of how this pulldown appears.

- Generate Button Test. This generates a test script that fully exercises all buttons in a page by going to them one by one. evalid > Record Mode > Wizards > Button Test Wizard.
- Generate Form Test. The Validate All Text Wizard generates a test script that fully exercises a FORM section of the current WebPage. evalid > Record Mode > Wizards > Form Test Wizard.
- Record Goto All Links in Page. The generates a test script that fully exercises all links in a page by going to them one by one. evalid > Wizard > Link Wizard.
- Validate All Text In Page. The Validate All Text Wizard creates a script file (i.e. a synthetic recording) that, when played

back, will confirm that every segment of this page is present (independent of the HTML rendering) in the page, and will issue error reports if **ANY** difference is found.



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Training, Consulting, Seminars

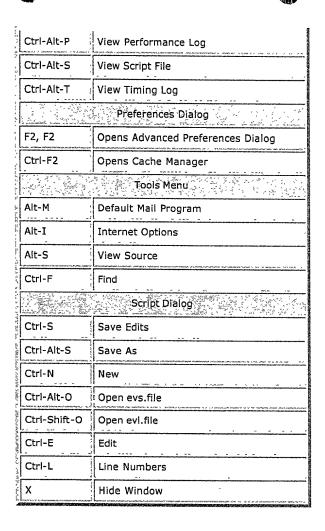
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Keyboard Short Cuts

eValid uses function keys and certain keyboard combinations for most of the functions needed during creation of scripts that test WebSites.

evälid KEYBOARD SHORT CUT SUMMARY			
	Function-Keys		
Key(s)	T		
F1 .	(Reserved as Windows Help Key)		
F2	Show Preferences Dialog (Global)		
Ctrl-F2	Show Cache Manager Dialog (Global)		
F4	Start Recording / Stop Recording (Global)		
F5	(Reserved for Browser Refresh)		
F6	Start Playback / Stop Playback (Global)		
F7	Single Step Playback (Global)		
F8	Pause Resume Playback (Global)		
F9	Run Multiple (Giobal)		
F10	Send Script to eValid (Global)		
F11	Toggle Absolute Mouse Click Recording		
F12	Toggle Absolute MouseOver Recording (Hover Time Exceeded)		
Ctrl-F9	Run Forever (Global)		
Shift-F4	Insert-Record		
	Open Files		
Ctrl-Shift-O	Open LoadTest File [LOAD License Only]		
Ctrl-Alt-O	Open Script File		
Ctrl-N	Manually Create Script		
Ctrl-Alt-N	Create LoadTest		
Ctrl-S	Save HTML File		
r Maria de la Companya de la Company	Validation Functions		
Ctrl-Shift-Y	Validate Document Byte Size		
-	A 20		

Ctrl-Shift-I Validate Selected Image Ctrl-Shift-M Validate Document Last Modified Date Ctrl-T Validate Selected Text Ctrl-Shift-T Validate Selected Table Cell Ctrl-Shift-U Validate Document URL Ctrl-Q Validate Screen Rectangle Ctrl-Y Synchronize on Text String Ctrl-Shift-A Validate All Applets Ctrl-Shift-D Validate All Element IDs Ctrl-Shift-J Validate All Images Modal Dialogs Ctrl-E ModalDialog: Enter Ctrl-B ModalDialog: Text Ctrl-W ModalDialog: Text Ctrl-U ModalDialog: Up Ctrl-L ModalDialog: Down Ctrl-L ModalDialog: Right Timer:Eunctfore Ctrl-A Set Alarm Ctrl-R Read Timer Ctrl-Alt-R Reset Timer	1 31	9900			
Ctrl-Shift-M Validate Document Last Modified Date Ctrl-T Validate Selected Text Ctrl-Shift-T Validate Selected Table Cell Ctrl-Shift-U Validate Document URL Ctrl-Q Validate Screen Rectangle Ctrl-Y Synchronize on Text String Ctrl-Shift-A Validate All Applets Ctrl-Shift-D Validate All Element IDS Ctrl-Shift-D Validate All Images Modal Dialogs Ctrl-B ModalDialog: Enter Ctrl-B ModalDialog: Text Ctrl-W ModalDialog: Wait Ctrl-U ModalDialog: Wait Ctrl-U ModalDialog: Up Ctrl-D ModalDialog: Left Ctrl-R ModalDialog: Right Timer Functions Ctrl-A Set Alarm Ctrl-A Set Alarm Ctrl-Alt-R Reset Timer Ctrl-Alt-R Reset Timer Ctrl-Alt-Z Enter Secure Zone Ctrl-Alt-Z Enter Secure Zone Ctrl-Shift-B Button Test Wizard Ctrl-Shift-F FormTest Wizard Ctrl-Shift-L Link Test Wizard Ctrl-Alt-A View All Logs Ctrl-Alt-G View Graphs HTML Page Ctrl-Alt-L View Load Test Log Ctrl-Alt-L View Message Log Ctrl-Alt-M View Message Log	Ctrl-Shift-E	Validate Document Elements			
Ctrl-T Validate Selected Text Ctrl-Shift-T Validate Selected Table Cell Ctrl-Shift-U Validate Document URL Ctrl-Q Validate Screen Rectangle Ctrl-Y Synchronize on Text String Ctrl-Shift-A Validate All Applets Ctrl-Shift-D Validate All Element IDs Ctrl-Shift-J Validate All Images Modal Dialogs Ctrl-E ModalDialog: Enter Ctrl-B ModalDialog: Tab Ctrl-T ModalDialog: Text Ctrl-W ModalDialog: Wait Ctrl-U ModalDialog: Up Ctrl-D ModalDialog: Down Ctrl-L ModalDialog: Right Timer Functions Ctrl-A Set Alarm Ctrl-A Set Alarm Ctrl-Alt-R Reset Timer Ctrl-Alt-X Exit Secure Zone Ctrl-Alt-Z Enter Secure Zone Ctrl-Alt-D Secure Data Id Wizards Ctrl-Shift-F FormTest Wizard Ctrl-Shift-F FormTest Wizard Ctrl-Shift-F View Event Log Ctrl-Alt-G View Graphs HTML Page Ctrl-Alt-G View Message Log Ctrl-Alt-M View Message Log Ctrl-Alt-M View Message Log	Ctrl-Shift-I	Validate Selected Image			
Ctrl-Shift-T Validate Selected Table Cell Ctrl-Shift-U Validate Document URL Ctrl-Q Validate Screen Rectangle Ctrl-Y Synchronize on Text String Ctrl-Shift-A Validate All Applets Ctrl-Shift-D Validate All Element IDs Ctrl-Shift-J Validate All Images Modal Dialogs Ctrl-E ModalDialog: Enter Ctrl-B ModalDialog: Tab Ctrl-T ModalDialog: Text Ctrl-W ModalDialog: Wait Ctrl-U ModalDialog: Up Ctrl-D ModalDialog: Down Ctrl-L ModalDialog: Right Timer: Functions Ctrl-A Set Alarm Ctrl-A Set Alarm Ctrl-Alt-R Reset Timer Ctrl-Alt-X Exit Secure Zone Ctrl-Alt-Z Enter Secure Zone Ctrl-Alt-D Secure Data Id Wizards Ctrl-Shift-F FormTest Wizard Ctrl-Shift-F FormTest Wizard Ctrl-Shift-L Link Test Wizard Ctrl-Alt-A View All Logs Ctrl-Alt-B View Event Log Ctrl-Alt-C View Graphs HTML Page Ctrl-Alt-L View Load Test Log Ctrl-Alt-M View Message Log Ctrl-Alt-M View Message Log Ctrl-Alt-M View Message Log	Ctrl-Shift-M	Validate Document Last Modified Date			
Ctrl-Shift-U Validate Document URL Ctrl-Q Validate Screen Rectangle Ctrl-Y Synchronize on Text String Ctrl-Shift-A Validate All Applets Ctrl-Shift-D Validate All Element IDs Ctrl-Shift-J Validate All Images Modal Dialogs Ctrl-E ModalDialog: Enter Ctrl-B ModalDialog: Text Ctrl-W ModalDialog: Text Ctrl-U ModalDialog: Up Ctrl-D ModalDialog: Down Ctrl-L ModalDialog: Right Timer Functions Ctrl-A Set Alarm Ctrl-R Read Timer Ctrl-Alt-R Reset Timer Ctrl-Alt-X Exit Secure Zone Ctrl-Alt-Z Enter Secure Zone Ctrl-Alt-D Secure Data Id Wizards Ctrl-Shift-B Button Test Wizard Ctrl-Shift-F FormTest Wizard Ctrl-Shift-L Link Test Wizard Ctrl-Shift-L Link Test Wizard Ctrl-Alt-A View All Logs Ctrl-Alt-C View Event Log Ctrl-Alt-L View Load Test Log Ctrl-Alt-L View Message Log Ctrl-Alt-L View Message Log Ctrl-Alt-M View Message Log	Ctrl-T	Validate Selected Text			
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Ctrl-Shift-J Validate Ali Images	Ctrl-Shift-A	Validate All Applets			
Ctrl-Shift-J Validate Ali Images Modal Dialogs Ctrl-E ModalDialog: Enter Ctrl-B ModalDialog: Tab Ctrl-T ModalDialog: Text Ctrl-W ModalDialog: Wait Ctrl-U ModalDialog: Up Ctrl-D ModalDialog: Down Ctrl-L ModalDialog: Left Ctrl-R ModalDialog: Right Timer Functions Ctrl-R Read Timer Ctrl-Alt-R Reset Timer Ctrl-Alt-X Exit Secure Zone Ctrl-Alt-Z Enter Secure Zone Ctrl-Alt-D Secure Data Id Wizards Ctrl-Shift-B Button Test Wizard Ctrl-Shift-F FormTest Wizard Ctrl-Shift-L Link Test Wizard Ctrl-Alt-A View All Logs Ctrl-Alt-B View Graphs HTML Page Ctrl-Alt-C View Graphs HTML Page Ctrl-Alt-L View Load Test Log Ctrl-Alt-L View Message Log	Ctrl-Shift-D				
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Ctrl-B ModalDialog: Enter Ctrl-B ModalDialog: Tab Ctrl-T ModalDialog: Text Ctrl-W ModalDialog: Wait Ctrl-U ModalDialog: Up Ctrl-D ModalDialog: Down Ctrl-L ModalDialog: Left Ctrl-R ModalDialog: Right Timer Functions Ctrl-A Set Alarm Ctrl-R Read Timer Ctrl-Alt-R Reset Timer Ctrl-Alt-X Exit Secure Zone Ctrl-Alt-Z Enter Secure Zone Ctrl-Alt-D Secure Data Id Wizards Ctrl-Shift-B Button Test Wizard Ctrl-Shift-L Link Test Wizard Ctrl-Shift-L Link Test Wizard Ctrl-Alt-A View All Logs Ctrl-Alt-E View Event Log Ctrl-Alt-G View Graphs HTML Page Ctrl-Alt-L View Load Test Log Ctrl-Alt-L View Message Log		Modal Dialogs			
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Ctrl-Alt-M View Message Log	Ctrl-Alt-G	View Graphs HTML Page			
	Ctrl-Alt-L				
	Ctrl-Alt-M				





Version 3.0 GUI Map

All operations in eValid are controlled through the pulldown menus. The table below shows the complete Version 3.0 GUI Map.

```
eValıd Main Toolbar: eValid
                 New Script
New Load Test
                 Open Script
Open Load Test
                  Record Mode
                                   Start Recording (Stop Recording)
                                   Insert Recording
                                                    Document
                                                                     Elements
                                                                     Last Modified Date
                                                                     All Document Properties
                                                    Selected
                                                                     Image
Table Cell
                                                                     Images
                                                                     Applets
                                                                     Blement IDs
                                                    Screen Rectangle
Text String
Clipboard Text
                                   Timer
                                                    Reset Timer
Set Alarm
                                   Security
                                                    Enter Secure Zone
Exit Secure Zone
                                                    Secure Data ID
                                   Wizards
                                                    Link Test Wizard
Form Test Wizard
                                                    Button Test Wizard
                                   Advanced Recording
                                                    Absolute MouseClicks
Absolute MouseOvers
                                                     Application Mode
                  Playback Mode
                                   Start Playback (Stop Playback)
Control Playback
                                                    Single Step
                                                    Pause | Resume
Run Multiple
                                                    Run Porever
                                   Start Analysis
Site Analysis Preferences
                  View
                                   Script Window
                                   Event Log
                                   Performance Log
                                   Message/Error Log
Timing Log
All Above Logs
                                   LoadTest Log
                                   Log Graphs
                  Settings
                                   Record/Play Preferences
Site Analysis Preferences
                                   Cache Manager
                                   Disable Playback Logging
                  Display Page Metrics
                  Send Script to eValid Inc.
 eValıd Main Toolbar: Help
```

About

```
System Information
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                                  User Manual
                                 Tutorials
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Hints
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                                 License
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evalid Script File: File
                New
Open .evs
                 Open .evl
Save
                 Save As
                 Revert to Saved
                 Open Text Editor
Show Line Numbers
                 Encode Input Text
                 Hide Window
ModalDialog Commands
ModalDialogEnter
                                  ModalDialogTab
ModalDialogText
ModalDialogWait
                                  ModalDialogUp
                                  ModalDialogDown
                                  ModalDialogLeft
ModalDialogRight
                 Extrinsic Commands
AbsTextEntry
                                  BreakPoint
CallScript
                                  Delay
DeleteCache
DynamicLinkCheck
                                  DynamicLinkCheckX
ExitAtEnd
                                  ExitNow
                                   GoScript
                                  Lock
MatchNotString
MatchString
                                   MessageBox
                                  MessageWindow
NewWindow
                                  Note
OnAlarmGoScript
                                  OmErrorGoScript
                                   PlayValue
                                  Reposition
Resize
                                   Serve
                                  SystemCall
Unlock
                  Clipboard Commands
                                   Copy
 Include Comments
                  Open Log
Track Log Name
                  View Spreadsheet
                  View Graph (single)
View Graph (multiple)
                  View Graph (multiple)
View HTML Table
View in Text Editor
Hide Window
```

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Message Summary

eValid writes messages to the Message/Error log based on what happens in the playback. This is an explanation of those messages and their meaning.

In all cases the messages in each class are arranged in increasing order of severity. That is, the worst types of message tend to be at the bottom.

Control of the Contro		eValid MESSAGE SUMMARY
Group	Message ID	Explanation
OK Message Group	ок	Everything is OK.
Everything is QK. Playback will continue normally.	MESSAGE	Something occurred during playback (e.g. re-direction) that the user may be interested in.
WARNING Message Group Something is wrong	ALERT	Something erroneous occurred (e.g. could not access byte count of document). Not something the user can fix. Playback will continue normally.
Playback should continue normally.	WARNING	Something is broken, but playback can continue as normal. Can be fixed.
	ALARM	OvertimeAlarm was set and went off, i.e. the time limit was exceeded. The user-specified text field is recorded into the message/error log.
	TIMEOUT	Page did not load within the specified download time. Playback will fail until next GotoLink or GotoLinkSubmit.
	ERROR	Something is broken and future playbacks are likely to fail, but can be fixed.
	FAIL	Something went seriously wrong. Usually this is a browser or system error. Cannot be fixed. Playback is likely to fail.



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eValid -- View Script, Test Logs, LoadTest Logs

Summary

eValid results from playbacks are placed in various files which can be viewed direct from the eValid GUI and converted into a variety of formats.

General

All eValid script files, log files, and LoadTest logs are viewable from one of the pull down sequences:

```
eValid > View > Script Window
eValid > View > Event Log
eValid > View > Performance Log
eValid > View > Message/Error Log
eValid > View > Timing Log
eValid > View > LoadTest Log
```

Log File Contents

As eValid plays back a script it writes certain information about what it is doing to four different log files: the Event Log, the Performance Log, the Timing Log and the Message/Error Log.

As an eValid user you have several options in processing these files. Every file can be purged before playback, or can be appended to after each playback (if you have multiple playbacks).

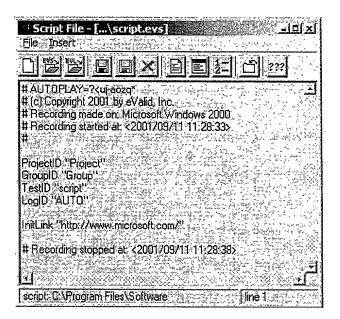
Here's a summary of the differences in these log files:

- Event Log. This has a single time-stamped line for every event that happens during playback. At the end of the file it has
 a Download Summary that gives statistics about the download details from the playback. The other three logs (see below)
 are subsets of the event log. All four log files have the same Download Summary at the end.
- Performance Log. This log contains all download timings and the "Command Completed" messages. It contains no
 messages from any Validate, Timer/Alarm, Wait, or Absolute Event commands which are executed in the script playback.
- Message/Error Log. This log contains ONLY those lines of the Event Log that do NOT say "OK" as a result status. This log
 file is a good place to look for any error messages your playback generated.
- . Timing Log. This log contains outputs of the Timer commands, plus the statistical summary of the downloaded page.

Note: LoadTest runs write results in a slightly different way, so this explanation does not apply to LoadTest runs.

View Script File

The script file contains the current script being created by eValid or the script that eValid is playing back.

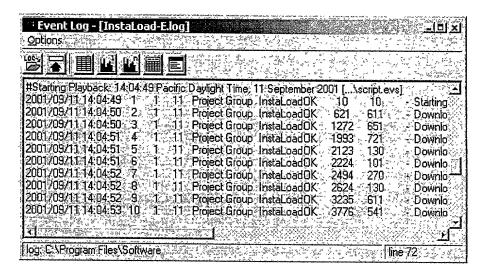


- Manually create a new script file using the pre-formatted template.
- Open a regular playback script (*.evs).
- Open a LoadTest script (*.ev1).
- Save the script using a new name.
- Save (overwrite) the script using the current name.
- Revert to the saved script (disregard all edits).
- Edit the existing script [or create one from scratch].
- Open script in the user defined Text Editor.
- Toggle line numbers ON/OFF.
- Close the script file, but not the window.
- Toggles encryption/decryption of input data fields.

Double click on any script keyword and eValid will take you to the complete explanation for this keyword in the User Manual.

View Test Logs, LoadTest Log

All four of the log files have the same format. The <u>Event Log</u> is the complete record of a playback; the other three logs are subsets of the <u>Event Log</u>. Access to information is the same for all four of these logs. Here is a sample:



Open an existing log file.

Updates the current Record/Play Preferences to this filename.

Convert the log data into a spreadsheet.

Show a graphical chart for the data pertaining to the <u>last test</u> in the log.

Show a graphical chart for all data in the log.

This button converts the log file data into an HTML table.

This button views the log data in the defined text editor.



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Working Directory and eValid Files

Windows Directory Structure

To use certain features of eValid, such as Load Testing, files must be referenced from the script and successfully found within the computer's directory structure. The directory structure is used to accurately pinpoint files that are located on the computer.

Files can be found by typing in the complete directory structure. For example, if one wanted to find an eValid script (named script.evs) in the default directory, the file's location would be:

C:\Program Files\Software Research\eValid\Program\Project\Group\script.evs

You can reference files from within eValid by typing the full directory, however this can create lengthy lines, not to mention increases the amount of time to write the script.

eValid: Working Directory

To ease the aforementioned directory 'woes', eValid has provided a *Working Directory* where you can save your scripts and not have to reference the full directory structure to use them.

Click eValid > Settings > Preferences to view the current settings for eValid's Working Directory. In the Project section on the top right of the Preferences window, there are four text boxes:

- Working Directory
- Project Name
- Test Group
- Test Name

The Working Directory text box sets the current working directory.

The project Name and Test Group text boxes name folders under the working directory where the files will be stored in the directory order project Name\Test Group.

Test Name is not used for file location. Rather, it is used as a reference to the contents of the script file; it can be used to help label and then identify scripts.

Working Directory Example

If you create a load test that does not utilize absolute paths, your script may not run if the eValid script file is not in the working directory. For example, your working Directory, Project Name, and Test Group preference options set your working directory to C:\Program Files\My Scripts\My Project\My Group\, but your script file is located in C:\Program Files\Software Research\eValid\Program\Project\Group\. If you write your load test script line as:

```
_eValid "script.evs" "" 5 "" "-pm 1.0"
```

eValid will not be able to identify the location of the script. It believes the the script resides in C:\Program Files\My Scripts\My Project\My Group\script.evs when it is actually in C:\Program Files\Software Research\eValid\Program\Project\Group\script.evs.

There are two ways to alleviate this problem.

Change the working directory.

· Use absolute paths.

Changing the Working Directory:

To change the working directory, click evalid > Settings > Preferences. Change the values under working Directory, Project Name, and Test Group to reflect the directory where the script file is located.

Using Absolute Paths:

You can also directly type the absolute path into the load test script. Using the example from above, the script would change to:

```
_eValid "C:\Program Files\Software
Research\eValid\Program\Project\Group\script.evs" "" 5 "" "-pm 1.0"
```

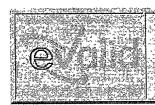
Advantages and Disadvantages

There are some advantages and disadvantages to using absolute paths and working directory paths. Consider the following:

- Absolute paths will work fine -- as long as you don't plan on moving your files to different locations. You would therefore have to change each line to reflect the *new* absolute path.
- Working directory paths limit the location of all scripts to one directory. If you wish to use scripts from other directories, you would have to use the absolute path to reference them.
- Working directory paths enable you to skip writing out a lengthy absolute path to a file, and makes the script easier to understand.
- Absolute paths do not force you to reset the working directory in the evalid > Settings > Preferences menu each time you change where you reference your scripts.

Lessons Learned

eValid uses a Working Directory to simplify calling other files within eValid scripts.



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Preferences

eValid has a number of user-settable preferences, including a powerful Cache Management option. User Preferences, Cache Management and Advanced Preferences are reached and set from the eValid menu using the following pulldown sequences.

eValid > Settings > Preferences

eValid > Settings > Cache Management

eValid > Settings > Preferences > Advanced Preferences

eValid Preferences	A STATE OF THE STA	
Playback Delay Multiplier 0.1	Record Include Default Form Elements	
-Wait Ceiling (msec) 5000	Real Time Recording 🔽	
Max Download Time (msec) 60000	Prompt for Script File Name 🗸 Auto-view Script File 🗸	
Form Fill Delay [msec] 1000	Multiple Windows	
Multiple Playbacks 'n' value 1	Prompt Each Time ★ Record T	
Simulate Modem. F Kbs 55 Audible Alerts F Repair HTML on Error F	Project Working Dir. C:\Program Files\Software R Project Name Project	
eValid Playback Status Notification	Test Group Group	
Load Testing LoadTest-Log LoadTest-L.log Display.HTML LoadTest Monitor 🔽	Test Name Test Auto-name Log Files	
LoadTest Timeoult (minutes) 10	Log:Management	
General	Event 🗸 Test-E.log 🗀 ktml	
Start Page (Enter new URL or select)	Perform ▼ Test-P.log	
Standard eValid Launch Page	Timing 🔽 Test-T.log 🗀 Shtriil	
Mail Program C:\Program Files\Outlook Express\MSIMN.E	Message ▼ Test-M.log	
Spreadsheet Program C:\Program Files\Microsoft Office\Office\EX Text Editor C:\Windows\NDTEPAD.EXE	Log Dutput Append to Logs Fig. Simple Purger on Playback Fig. Standard Auto-view Event Log Fig.	
View eValid Help in New Windows ▼ Save Main Frame Position Save Child Window Positions ■	Advanced. Cache Profiles	
Save Child Window Positions 1	Cancel DK (& Save) DK	

The state of the s	
	eValid PREFERENCES
	CARING ACTION OF THE PROPERTY
Preference	
Preterence Name	Default Value Detailed Explanation
Group	
	Wait Times, if any are encountered in the playback
	wait filles, if any are encountered in the playback
38	

	Delay Multiplier	1.0	process, are multiplied by this number. The wait time never exceeds the Wait Time Ceiling. 1.0 means "real time".
	Wait Ceiling msec	10000	The maximum time (in msec), after multiplying Wait Times by the Delay Multiplier, to wait. This ceiling will prevent playback lockup.
	Max Download Time (msec)	60000	The amount of time (in msec) to wait, after which an attempt to download is declared an Error.
	Form Fill Delay (msec)	1000	How long (in msec) to wait between entering items into a FORM.
	Multiple Playbacks 'n' Value	1	How many times to play back on Run Multiple.
Playback Group	Simulate Modem	Off	Whether to simulate playback with a constant-speed modem.
Group	Kbps	56	The rate at which to simulate playback of a constant-speed modem.
	Auto-View Event Log	ои	Show Event Log automatically on playback.
	Append to Logs	OFF	When ON append data to all log files.
	Audible Alerts	OFF	Signal audibly to the user on Errors.
	Repair HTML on ERROR	OFF	Playback stops when an error is found. You have the option to continue or to repair the page based on the error messages received.
	Playback Status Notification	OFF	Use special pages to indicate OK, Warning, or Error on playback.
	Log Messages	Standard	How much detail to place in the generated Log Files.
Record	Multiple Windows	Prompt Each Time	Specifies how to handle pages that open new windows. The choices are: • Prompt Each Time • New eValid in Record Mode • New IE Window in Browse-only Mode • Suppress New Windows
Group	Real-Time Recording	ON	Includes all recorded wait intervals.
	Auto-View Script File	OFF	Present the script file at the end of a recording.
	Prompt for Script File Name	OFF	Prompt for the name of the script file before starting a recording.
	LoadTest Log	LoadTest - L.log	The name of the file where LoadTest data is written.
	HTML Monitor	ON	Enable the LoadTest Monitor in HTML format.
Load Testing Group	Refresh (msec)	5000	Refresh interval for the HTML LoadTest monitor.
	Timeout (minutes)	10	Maximum time for a LoadTest. Once this threshold is reached, eValid will kill all LoadTest threads.
Project Group	Working Directory	\Program Files \Software Research \eValid\	The working directory where eValid stores all files.
	Project Name	Project	Name of current test project, which typically is composed of one or more groups of tests or groups. The test hierarchy is managed by SMARTS.
	Test Group	Group	Name of current test group, which includes other groups or individual tests. The test hierarchy is managed by SMARTS.